



NEWWATER
GROUP

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MINT–ConTech

CONTAINERIZED WATER
TREATMENT PLANT



Member of

ALL
FOR
WATER

IN-EKO
TEAM

Mobile, easy to install water
treatment plant



Safe drinking water from variable sources.

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CONTAINERIZED WATER TREATMENT PLANT

MINT-ConTech integrates technological processes, chemical dosing, measurement and sophisticated control system to produce **safe drinking water** from variable sources, both from surface and ground. The containerized water treatment plant is fully factory assembled, tested and ready for start-up.

The smart integration of processes allows the **MINT-ConTech** to adapt to the inlet water quality. The integrated steps of the technology are as follows:

PUMPING – main feeding pump controlled via frequency converter secures the flow through the technology.

CHEMICAL DOSING 1 – up-stream the filters can be automatically dosed coagulant, pH adjustment, pre-disinfection according to the feed water quality.

TWO STAGE FILTRATION – two filters allow operation both in parallel or serial. The filling media can be adapted to the inlet water quality. Backwash is automatically controlled.

ULTRAFILTRATION – high recovery membrane separation finally polishes and disinfect the water for the usage. The system allows the chemical pretreatment also up-flow the ultrafiltration. Backwashing and chemical enhanced backwashing (CEB) is automatically controlled.

DISINFECTION – the hypochlorite is dosed into the product water to secure the safe quality.

NEUTRALIZATION – waste water from chemical enhanced backwash is acid/alkaline. Automatically controlled neutralization allows to discharge the waste water directly.

The **MINT-ConTech** water treatment line ensures the water quality in variable parameters according to the feed water quality. **Product water meets WHO and other international standards.** The technology is able to remove:

Total suspended solids and **turbidity** – product water is perfectly clarified with no TSS.

Iron and **Manganese** – product water is free of Fe and Mn.

Bacteria and **Viruses** – product water is safe for drinking and other uses.

TOC – the organics could be removed via coagulation or GAC.

Colour, Odor, Arsenic, Sulphide

Another pollutants removal could be discussed when the real feed water analyses are available.

Technical data:

Dimensions:	6 560 x 2 440 x 2 590 mm
Weight:	3 000 kg (transport) 6 000 kg (working)
Temperature:	-20 to 40 °C
Flow:	3-8 m ³ /hour (72-264 m ³ /day) Feed water quality depending.
Connections:	DN50, flange (feed water) DN65, flange (product water) DN50, flange (waste water)
Voltage:	400 V/50 Hz
Power:	16 kW



MINT-ConTech technology is fully assembled including piping and wiring, ready for plug and play installation. The installation needs only foundation, water and electric connections.

Container is insulated and equipped with heating/cooling to work in wide range of the weather conditions. The outside walls are painted with anticorrosion coating (customized RAL). The inside floor, frames, construction and hardware is made of stainless steel. The floor is drained for the case of leakage or accident.

The interior of the container comprises of three parts, each with separate entry. The most important part is the technology, taking up most of the container. A separate chemical storage room is accessible by wide doors, allowing easy replacement of chemical storage tanks. Storage tanks are placed on spill trays in case of leakage. A small separate room for the operator contains the main control panel as well as a table for e.g. PC.

All the technology and piping are made of materials with certification for direct contact drinking water.

The **MINT-ConTech** fully automatic and safe operation is guaranteed thanks to the combination of these measurements and sophisticated software. Operation of the technology is possible either via the main control panel equipped with HMI interface from the separate operator room or by remote access via web interface with data connection (GSM/wi-fi). This remote access enables easy operation assistance from New Water Group.

The following software upgrade modules are also available:

IQ-MINT is based on artificial intelligence and self-learning software. It allows the technology to adjust to real time changes in feed water quality and operating parameters. IQ-MINT can **optimize technology recovery, lower operation costs and maintain maximum safety** of the process.



MINT-eBOOK is software service book. This feature helps and notifies the operator and makes the operation and service extremely easy.



THE FUTURE IS NEW WATER!